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Inaugural Dissertation

On

Cholera & Morbus;

For the degree

Of

Doctor of Medicine.

In the

University of Pennsylvania.

By David M. Tert

Of

Pennsylvania.

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Cholera e Morbus.

This is a disease to which the inhabitants of warm climates are peculiarly liable; though no climate or season is exempt from its visitations; and it occurs sufficiently often in this country, to merit a considerable share of our attention. It is most apt to occur in the latter part of summer, when the heat is excessive, or when there are sudden changes of temperature; and the violence of the disease is generally greater in proportion to the intensity of the heat.

Causes. The causes of this disease are, the combined influence of heat and miasmata; rapid atmospheric vicissitudes, as regards temperature or moisture; exposure to night air, cold and moisture applied to the feet, suppressed perspiration, cold drinks, and indigestible articles taken into the stomach; as unripe fruit, watery vegetables &c. violent fits of anger



and it is also said to have been produced by
acid medicines.

Symptoms. This disease is generally preceded
by a collapse of the system, which is vivand
by some creeping sensations of cold attended by
yawning, oppression about the precordia, and
cold feet; pulse smaller than usual and rather
quicker, skin cool and not in a perspirable state.
These symptoms are soon followed by sickness,
distention and flatulency of the abdomen, with
gripping pains in the bowels, accompanied with
frequent stools, which are at first natural, or thin
and watery. The stomach at the same time is
sized with sickness, discharges its contents, and
rejects whatever is taken into it. In a short time
there are copious bilious discharges both by
vomiting and stool. In consequence of the
irritation of the passing bile, the gripping pains
of the intestines become more severe; they are



excited to irregular and spasmodic contractions,
which are often communicated to the abdominal
muscles, and to the muscles of the lower extremities. ✓

There is pain and great heat in the stomach,
arising probably from the same cause.

There is intense thirst; and the head is often
sympathetically affected with pain; the pulse
is small and frequent, and the skin hot.

To these symptoms succeed extreme languor,
debility and faintings, sometimes attended with
copious sweats, coldness of the extremities; and ✓
finally, death.

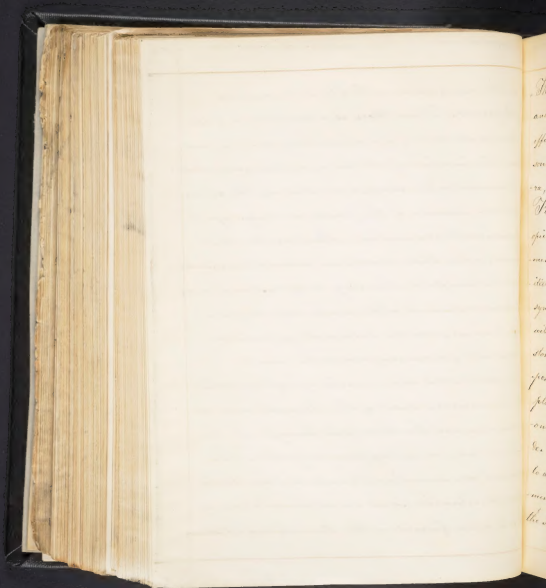
Diagnosis. The only diseases with which cholera
morbida is liable to be confounded, are colic, dysen-
tery, and diarrhoea. It may be distinguished
from the former, by the absence of constipation,
which almost always attends colic, and from
the two latter, by the violence of the spasms, and
vomiting; and by the discharges being bilious,



matter mixed with blood or mucus.

Prognosis. When there is a subsidence of the turbulent state of the alimentary canal, a gradual diminution of all the symptoms, succeeded by undisturbed sleep, a moisture of the skin, and an increase of the pulse, we may expect a favourable termination. But on the other hand, when there is extreme perturbation, hurried respiration, cold, clammy surface, convulsions, delirium, tumid abdomen, hiccups, haggard countenance, and an intermitting pulse, we may look for an unfavorable result.

Dissections show marks of inflammation in the mucous coat of the stomach and duodenum, and the blood vessels throughout the alimentary canal appear congested. The viscera are sometimes removed from their proper situation, and an accumulation of bile is often found in the stomach and intestines.



The brain is often found engorged with blood, and in very violent cases extravasations and effusions take place. In its progress, and sometimes nearly all the abdominal viscera, are found much engorged.

Treatment. In some cases of this disease opium, freely administered, at the commencement, will check vomiting, counteract the primitive irritation, and soothe all the unpleasant symptoms. & Nevertheless, as a general rule, it will be found expedient, first to relieve the stomach of its irritating contents. For this purpose many practitioners adhere to the ancient plan of using diluent drinks, such as chamomile-tea, warm water, barley or chicken water, &c. in great quantities. Considering the disease to arise from acrid bile, they pursue the treatment for inverted poisons, pouring diluents into the stomach to wash away the offensive accumulations.



That this power was, occasionally, very success-
ful, I have no doubt, & it seems evident we were
prompt, certain, and effectual in their opera-
-tion, they should always be preferred. The best
remedy for this purpose is ipecacuanha should
arise, & when it is given, and its operation
prevented by copious draughts of warm water,
or other mild laxative, it will answer well. In
all of relieving the stomach and general
system from oppression, promoting reaction,
and equalizing excitement. Our next object is
to calm the irritability of the stomach, and raise
the general tonic power. There are several reme-
-dies suited to this indication, of which, calomel
is the most important, but it should always
be combined with iron, opium, and in some
cases, a cathartic is best, as it is relaxing, and
determinative to the head, it should proceed
cautiously. The state of the power however,



is not to be our only guide, for we are then in
much pain, and the pulse at the same time
is weak, it is greatly oppressed, and by it leading
us, it will be found to rise. Hence, although
the state of the pulse may not seem to indicate
it, if the pain and spasms are severe, and there
is an ordinary degree of rigor in the patient,
restriction should be employed. In all
severe cases however, bleeding should be
preceded by the warm bath, and in severe
and very violent, and communicating with
some stimulating liniment, until reaction
is established, and then draw blood, cautiously
watching its effects on the system. Issues
applied to the epigastrium is one of our most
efficient means of checking vomiting.
I have justly been said of issues in
this disease, and as I have already mentioned,
it may be given either at the commencement



of the attack, or after active depletion. But
in whatever state it may be administered,
must befit not to be denied from using it in
form of irritation, especially when the stomach
is very weak, or in the point of giving the
second in a pint of warm water, or two draughts
of barley water in eight or ten stages, to be re-
peated every three or four hours, according to
circumstances. When given by the mouth, it
should always be given in the solid form, and
as it is best it may be given in doses of
two or three grains, every two or three hours; the
dose is said by Thomson, to have been increased
to eight or ten grains, in one urgent case.

It acts in calming irritation and reviving spirits,
warm, & mentation; as also drawing out of the
spirits or brandy, or other spirits, some irritation
to the system, and abdomen generally.

The chief uses of opium are, to give



pulverized pepper, cinna, or other sps. ground
into a plaster, & mixed w/ wine, and is used
with spirits or tinctures, and applied to the
epigastrium. But we may give internally for
the same purpose, calomel in small doses, or
as soon as convenient, calomel and opium
continued, or small doses of saccharum saturni,
or wine and milk, or small doses of soda
or seltzer water, or what is very highly recommended
by the physicians mixture:—

R. Tincture nitrous acid ℥i

Camphorated mixture ℥℥℥

Tincture of opium ℥℥℥℥℥

a tablespoon full of each may be given very
frequently. In violent cases, where the
symptoms continue violent, and the relief
appears to be wanting, singultus should be
applied to the epigastrium and externalities,
or the nitric acid applied to the epigastrium.



as an expectorant, this may be done by mixing
two parts of the acid with one of water, and
expectorating it with a feather, and when it
remains until pain is felt, and then con-
tinuing it by a solution of our tincture of opium.
The best and most certain remedy in this stage is spi-
rit of turpentine: it never fails to give in most ca-
ses, but in the most difficult cases, however, it is
very often given but scarcely helps, and even, fre-
quently with violent effects, even the stomach is in-
flamed. The convulsions most with most be-
nign attacks, when life appears to be in
imminent danger if relief is not prompt-
ly afforded, have an most different origin, viz. the
stomach, and the administration of opium
in large doses, together with the remedies above
mentioned. In India where this disease is
very common, and where its attacks are very
sudden and violent, the practice was to



to Schwen, is copious bleeding, followed by the adminis-
tration of twenty grains of calomel, combined with
one hundred drops of laudanum, aided by the warm
bath, sinapismus &c. In the W. Indies, some prac-
tice binding the patient down to a table, or board,
with straps, so that he cannot stir, and that the
abdominal muscles cannot act; and then give
laudanum. Stitherts I have said nothing of
purgatives in this disease, which I consider very
important remedies in every form of it; after we
have subdued, or allayed irritation, we should begin
with small doses of calomel; say two grains
every hour, until fifteen or twenty grains have
been taken, and then work it off with Epsom-
salts, or castor oil. This disease is liable to re-
turn; to obviate which, the patient should avoid
all exciting causes, or any means that have a ten-
dency to promote a relapse. Humor should be
worn next the skin, and night air particularly avoided.

[Faint, illegible handwriting in cursive script, likely a historical document or letter.]

[Partial view of the following page, showing the right edge of the text.]

The diet should be light and nutritious, the bowels kept in a soluble state, by the use of calomel, rhubarb, magnesia, or the neutral salts. To restore tone to the system, where the attack has been severe, bitters, as quassia, serpentaria, columbo &c. should be employed. The choice of vitriol is also used with advantage, in doses of ten drops two or three times a day.

